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(73)

MARS, INCORPORATED
6885 Elm Street MCLEAN XX (US).

(72)

LONG, ALAN (DE).

(74)

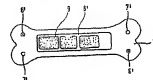
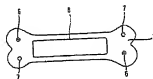
G. RONALD BELL & ASSOCIATES

(54) DISPOSITIF D'ADMINISTRATION ET/OU DE CONSERVATION D'ALIMENTS POUR ANIMAUX

(54) DEVICE FOR ADMINISTERING AND/OR PRESERVING ANIMAL FOOD

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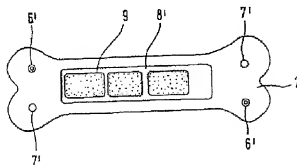
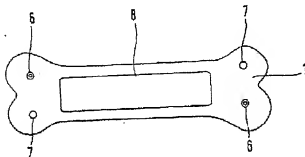
The invention concerns a device for administering and/or preserving animal food, the device comprising at least two parts to be detachably connected to each other. At least one part has a recess such that, in the assembled state, the parts define an internal cavity used to hold animal food. The parts to be detachably connected to each other are separated by the influence of the biting and/or chewing movements and/or manipulations by the extremities and/or aids on the device by the feeding animal, so providing access to the food located inside the device.



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(72) Inventeur/Inventor:
LONG, ALAN, DE
(73) Propriétaire/Owner:
MARS, INCORPORATED, US
(74) Agent: G. RONALD BELL & ASSOCIATES

(54) Titre : DISPOSITIF D'ADMINISTRATION ET/OU DE CONSERVATION D'ALIMENTS POUR ANIMAUX
(54) Title: DEVICE FOR ADMINISTERING AND/OR PRESERVING ANIMAL FOOD



(57) Abrégé/Abstract:

The invention concerns a device for administering and/or preserving animal food, the device comprising at least two parts to be detachably connected to each other. At least one part has a recess such that, in the assembled state, the parts define an internal cavity used to hold animal food. The parts to be detachably connected to each other are separated by the influence of the biting and/or chewing movements and/or manipulations by the extremities and/or aids on the device by the feeding animal, so providing access to the food located inside the device.



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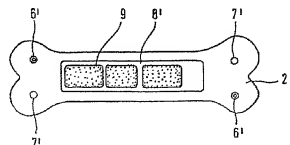
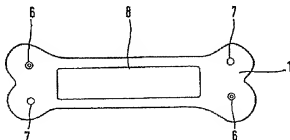
(54) Bezeichnung: VORRICHTUNG ZUR VERABREICHUNG UND/ODER AUFBEWAHRUNG VON TIERNÄHRUNG

(57) Abstract

The invention concerns a device for administering and/or preserving animal food, the device comprising at least two parts to be detachably connected to each other. At least one part has a recess such that, in the assembled state, the parts define an internal cavity used to hold animal food. The parts to be detachably connected to each other are separated by the influence of the biting and/or chewing movements and/or manipulations by the extremities and/or aids on the device by the feeding animal, so providing access to the food located inside the device.

(57) Zusammenfassung

Vorrichtung zur Verabreichung und/oder Aufbewahrung von Tiernahrung, wobei die Vorrichtung aus mindestens zwei lösbar miteinander zu verbindenden Teilen besteht, wobei mindestens ein Teil eine Ausnehmung aufweist, so daß die Teile im zusammengefügten Zustand einen innen gelegenen Hohlraum definieren, der der Aufnahme von Tiernahrung dient, und daß die lösbar miteinander zu verbindenden Teile sich unter dem Einfluß von Beiß- und/oder Kaubewegungen und/oder Manipulationen mit Extremitäten und/oder Hilfsmitteln an der Vorrichtung durch das zu fütternde Tier lösen und damit Zugang zu der im Inneren der Vorrichtung befindlichen Tiernahrung möglich wird.



DEVICE FOR ADMINISTERING AND/OR PRESERVING ANIMAL FOOD

The invention relates to a device for dispensing and/or storing animal food.

In nature, a great many examples of symbiosis of
5 different forms of organisms to their mutual benefit are to be found. Specifically, the evolution of man, and of human societies, is characterized, perhaps indeed dominated, by such symbiotic relationships. The very early hunter-and-gatherer societies must have profited by the indirect or direct
10 proximity of canids. This proximity ultimately led to domestication, which became especially prevalent during the transition from hunter and gatherer to agricultural societies. With advancing differentiation of this reciprocal relationship between (domestic) animal and man, came a more extensive
15 division of labor, which likewise imposed a duty of support on man vis-a-vis beast.

In recent decades, especially in the western industrialized countries, the relationship of man to his domestic animals has once more changed fundamentally. It is
20 only quite rarely that domestic animals today are assigned tasks arising from their special nature or their original importance to man. This applies especially to dogs and cats. Instead, they have become members of the family, and playmates and companions, rather than hunting assistants, guards or pest
25 control agents.

Consequently, the requirements of animal feeding by the animal with respect to quantity and quality have changed, and secondly so have the requirements on the part of the owner of the animal. Central to all these considerations is man's
30 duty to support the animals living in his community and the provision of appropriate living conditions.

In efforts to secure appropriate nourishment, heretofore essentially the quality of animal food has been in the foreground. Less attention has been paid to the shape or form in which animal food is dispensed, especially as regards the domesticated predators, the dog and cat.

For the feeding of dogs and cats, typically a dish, in the broadest sense, is employed, in which the food in question is placed. This food may be of highly various consistency, an effort being made to simulate the consistency of the food normally taken by the animals.

However, it cannot have escaped the expert animal harborer's notice that the dispensing of animal food in such form that the animal takes the food offered directly, i.e. from the dish, by no means does justice to the complex behavior involved in foraging for and ingesting food under natural conditions.

Not to enlarge here on the various models that have been developed in the literature to describe the behavior of animals, the principle of double quantification seems plausible for the description and perhaps even the understanding of animal behavior, in order to draw the appropriate conclusions as to the dispensing of animal food in particular.

The principle of double quantification states essentially that the execution of behavior patterns is dependent both on internal conditions, for example in the form of a preparedness to act, and also on external factors, i.e. stimuli, in the sense of triggers. When both factors are present, the behavior pattern in question can be observed. At the same time it is possible that, for example, in the presence of a strong internal condition, for example such that

an action has not been performed over a considerable period of time, comparatively unimportant external factors, i.e. weak triggers, may suffice to cause the behavior pattern in question to be performed.

5 Applied to the food dish, this means that with the immediate presentation of food in the dish, a long series of behaviors on which the natural procurement of food by the animal is based, are not performed. This leads to an intensified preparedness to act, which may then force its way
10 into other modes of behavior, for example overshoot actions, which may ultimately be interpreted as the expression of inappropriate animal husbandry.

 Another possibility of breaking down the animal's enhanced preparedness to act consists in that the same is
15 referred to other objects. In the case of dogs, this may for example lead to operations on table legs or the like with the teeth.

 To provide a suitable outlet for the modes of behavior described above, attempts have been made to offer
20 food in a suitable form, for example as dog biscuits in the shape of bones. What is accomplished by the visual conformation of a dog biscuit in the shape of a bone is that certain visual stimuli (bone shape) that normally occur in the acquisition of food by the animal are offered under the
25 conditions of domestication as well, and may thus in part satisfy the animal's needs. Other stimulating qualities such as for example tactile stimuli are reflected in the consistency of the bone biscuit. But here again, there is the disadvantage that processing of the food by the animal is very
30 limited. Another disadvantage of such animal feeding, or the shape in which dispensed, may be seen in that not every

qualitatively high-grade animal food can be offered in this form. Another point to be considered is that the urge to gnaw, i.e. the internal condition therefor, is very strong in the dog and cat specifically, which would mean that a
5 correspondingly large quantity of such animal food would have to be fed. But this would lead to an imbalance between the animal's urge to chew on the one hand and the necessary supply of nutrition, with the result either that the animal would receive too much food, which is undesirable also from the
10 point of view of proper animal husbandry, or else the gnawing urge would ultimately be unsatisfied.

Satisfaction of the urge to chew on the part of domestic animals, especially dogs, is the purpose of so-called gnawing-bones. A clear internal connection being normally
15 made between chewing and the taking of nourishment, or supply of energy, such gnawing-bones are not in accord with proper animal husbandry, i.e. satisfaction of internal conditions and external practice, which as explained above underlie an acting-out of the corresponding behavior pattern. Although
20 the urge to gnaw is satisfied, more far-reaching stimuli, such as for example tactile stimuli, flavors and odors, and the corresponding physiological reactions, are left out (salivation, production of digestive enzymes and the like). The close temporal correlation of such stimulus configurations
25 as they occur in nature is absent. The corresponding situation therefore cannot be considered species-specific.

The object of the present invention is to provide a device serving for the dispensing and/or containment of animal food, where satisfaction of numerous behavior patterns
30 connected with the acquisition of nourishment is at issue. Specifically, in agreement with the temporal correlation of

visual, tactile, olfactory and taste stimuli as naturally observed in the taking of food, these are to be simulated to a large extent in the dispensing of animal food, thus, upon the whole, making possible a more species-specific animal

5 husbandry.

According to one aspect of the present invention, there is provided a device for dispensing animal food stored within the device, wherein the device comprises at least two parts detachably connected to each other, at least one of the
10 parts having a recessed portion therein so that when the parts are assembled together a cavity is defined to accommodate animal food therein, and wherein the parts to be detachably connected to each other will be loosened under the influence of biting and chewing motions and manipulations of the device
15 with the extremities and aids by the animal to be fed, thus enabling access to the animal food placed in an interior of the device, and wherein the assembly of the parts forms a crevice on the device, which serves as a point of attack for an animal to open the device and render accessible the animal
20 food accommodated in the interior, the crevice extending in a lengthwise direction of the device.

According to another aspect of the present invention, there is provided a device for dispensing animal food stored within the device comprising at least two parts releasably
25 connected together, at least one of the parts having a recessed portion therein so that when the parts are assembled together an internal cavity is defined to accommodate animal food therein, said at least two parts being assembled together to maintain a lengthwise open crevice therebetween which
30 serves as a point of attack for an animal to separate the at least two parts to gain access to the food therein by biting

or chewing or manipulating the device with the extremities of the animal to be fed.

In one embodiment, the parts are connected to each other by at least one molded-on plug connection.

5 In a preferred alternative, the device is of an elongated shape with a constriction in at least one location of the device, enabling the device, when lying on a surface, to be picked up with the mouth by the animal to which the food is to be dispensed.

10 In an especially preferred embodiment, the device may be formed in the shape of a bone.

In one embodiment, the device features a surface depression which serves as a point of attack for opening the device to render accessibility to the animal for the food
15 accommodated therein.

In an alternative, a crevice is formed on the device through the assembly of the parts, to serve as a point of attack for opening the device and thereby rendering accessible the animal food contained within it. In an especially
20 preferred embodiment, the crevice runs in a lengthwise direction of the device.

An advantageous embodiment is one in which the crevice differs in width along its length.

In a preferred embodiment of the present invention, a
25 cavity formed inside the device, by the assembling of the parts which is larger than required to accommodate the animal food, and the animal food introduced therein can move relative to itself and to the hollow interior.

In an especially preferred embodiment of the device
30 according to the present invention, the cavity, or a portion

thereof, is sealed with an edible biopolymer or synthetic material.

In a preferred embodiment, the seal of the hollow cavity is broken by the action of enzyme activity contained in the saliva of the animal to be fed.

In an alternative embodiment, at least a portion of the device is made of an edible material.

An especially preferred alternative of the present invention is achieved by making all parts of the device out of edible material.

In a further embodiment, at least a portion of the device is treated with scents and/or flavorings.

In a preferred embodiment, the flavorings and/or scents are released only under the influence of enzymatic activity contained in the saliva of the animal to be fed.

Alternatively, the device comprises means representing pronounced tactile stimuli for the animal to be fed, and in especially preferred embodiments the said means are selected from the group comprising fiber elements and rough surface elements among other spatial structures.

In one embodiment, the device according to the present invention comprises design means that represent pronounced visual triggers of modes of behavior connected with the taking of nourishment by the animal to be fed.

Preferably, the design means are selected from the group comprising color patterns, color intensities and colors, or their corresponding grays, among other spatial elements.

In an alternative, the device, after assembly of the at least two parts of which it is composed, comprises a coating that is dissolved under the action of enzymatic activity contained in the saliva of the animal to be fed, and

releases the animal food to be found in the interior of the cavity only after dissolution of the said coating, possibly under the influence of biting and/or chewing movements and/or manipulations of the device with the extremities and/or other aids by the animal to be fed.

A preferred embodiment results if the coating extends to the area of the joint between the parts making up the device and releases the animal food contained inside the cavity only after dissolving of the said coating.

In a preferred embodiment, the coating extends to the region of the crevice between the parts making up the device and releases the animal's food contained in the cavity of the device under the influence of biting and/or chewing movements and/or manipulation of the device with the extremities and/or other aids by the animal to be fed only after dissolving of the said coating.

In a preferred alternative, the coating contains scents and/or flavorings.

In an especially preferred embodiment, the flavorings and/or scents are released only under the influence of enzymatic activity contained in the saliva of the animal to be fed.

The present invention relates further to use of the device for storing and/or dispensing animal food for the purpose of storing and/or dispensing animal food.

By the device according to the present invention, the animal keeper is enabled to store animal food and above all to dispense it to the animal in a species-specific manner. By species-specific it is meant that the animal is confronted with as many as possible of those stimulus configurations with which it would be confronted in the species-specific

acquisition of food, and consequently will develop all those behavior patterns, or at least as many of them as possible. The device according to the present invention thereby overcomes all the disadvantages of the prior art as described above. In accordance with the principle of double quantification, this is attended by a reduction of preparedness to act for many behavior patterns necessary in the course of the procurement and ingestion of foods. In that the actual nourishment is contained in a cavity located in the interior of the device, the animal must perform an entire series of manipulations in order to loose the parts detachably connected or to be connected to each other under the influence of biting and/or chewing movements and/or manipulations of the device with the extremities and/or other aids by the animal to be fed, thereby enabling access to the animal food to be found inside the device. Instead of lying there exposed as is the case when a feeding dish is used, certain warrantable efforts on the part of the animal are required for the enjoyment of the food. The stimuli triggering these behavior patterns are part of an otherwise comparatively stimulus-poor environment under the normally prevailing conditions of harboring in this respect. In that the device according to the present invention consists of at least two parts detachably connected to each other, the animal can itself open up its source of food. Not only that the actual purpose of feeding, the supply of nutrition, is accomplished; at the same time a reward is given for the efforts made and the relevant preparedness for action is resolved.

From what has been said, an additional advantage emerges, such that the said device according to the present invention serves not only for the dispensing and/or keeping of

animal food, but may also be seen as a toy or means of animal education, the animal food contained in the device serving as positive reinforcement of desired modes of behavior.

In that the parts of the device according to the present invention are connected to each other by at least one molded-on plug connection, there is a simple but highly effective possibility of regulating the conditions under which the device will be opened by the animal to be fed. A close fit between the molded plug connections will add difficulty to the ease of opening of the device, so that even for example dogs of greater size must exert an expenditure of effort appropriate to their bodily strength in order to reach the animal food contained in the device. Conversely, a comparatively loose plug connection can enable even smaller dogs to open the device. Opening the device may take place under the influence of biting and/or chewing movements and/or manipulations of the device with the extremities and/or aids by the animal to be fed. Another advantage of such a molded plug connection is that the parts making up the device are so firmly connected to each other that they will not immediately release their contents in response to a mere picking up of the device according to the present invention by the animal to be fed or by a probing with the extremities.

In that the device according to the present invention comprises a constriction in at least one location, it is assured that the animal is able to grasp the device with the jaws in order to pick it up, as is possible in play or training or in the acting out of natural behaviour patterns (retrieving the prey). By suitable design, it is also possible that dogs differing in both size and shape of the muzzle can use one and the same bone.

The possibility of picking up the said device according to the present invention with the mouth of a dog for example is also accommodated by the elongated shape of the device. Furthermore, the playful factor that may accompany the use of the said device may take its place alongside the aspect of presentation of behavior-relevant visual triggers. Applied to the present case, this means that in the context of species-specific animal husbandry, the configuration of the total life situation, for example by presentation of suitable visual stimuli, should be brought as close as possible to the conditions that would be found in the natural environment. The elongated shape presents a visual stimulus closely approaching conditions in nature, whence, in accordance with the principle of double quantification, a reduction of readiness to act out the corresponding behavior patterns results, just as would be the case upon/after ingestion of the food under natural conditions. In that the said device is formed in the shape of a bone, special account is taken of the relevant need of the animal, specifically the dog.

In that the device according to the present invention is provided with a surface depression, in particular a crevice, serving as point of attack for opening the device and thereby rendering acceptable the animal food accommodated in the interior, whether said surface depression is formed by the assembling of the parts or not, other advantages are realized respecting the lowering of readiness to act as described above in the sense of species-specific animal feeding and hence husbandry. The crevice enables the animal being fed to open the device with the teeth. In combination with the elongated shape, moreover, other motor activities, such as for example the employment of the extremities, are promoted. All this is

a clear extension of the normal course of action when the animals are fed for example with use of a dish. This is supported by the extension of the crevice in lengthwise direction of the device.

5 Special manufacturing advantages result from the fact that the surface depression (crevice) results from the assembly of the parts of the device.

10 Specifically, because the crevice is preferably of varying width along its length, animals with jaws of different size are given different points of attack, so that one and the same size of device may be used, for example, for different breeds of dog. Besides, the difference in width also opens up the possibility that different teeth (incisors, canines, molars) can be used to open the device and thus get at the
15 food.

 That the cavity inside of the device is larger than necessary to actually accommodate the animal food, especially when the animal food to be taken consists of a number of solid parts with a hard surface, makes possible a relative motion of
20 the animal food in relation to itself and the interior of the cavity. This relative motion necessarily generates noise, representing an additional stimulus of positive value in connection with the taking of food. Another related advantage is that, since the food is able to move within the cavity, a
25 displacement of the center of gravity is brought about. This shift in center of gravity is noticeable by the animal when it moves or carries the device in question. Additional tactile stimuli then occur, that are not achieved by any of the devices described in the prior art.

30 With the device according to the present invention, there is the further advantageous possibility, in addition to

the actual animal food stored in the hollow interior itself, of supplying the animal with an additional source of nourishment in the form of the actual device. This is achieved in that at least a part, or the device as a whole, is made of an edible biopolymer or synthetic material.

Besides the dispensing of solid animal food, the device according to the invention also permits the dispensing of liquid or viscous animal food, in that the cavity or a portion of it is sealed with an edible biopolymer or synthetic material. This ensures that upon handling of the device, whether by the animal keeper or by the animal itself, the animal food in question will not be released prematurely. If the sealing of the cavity employs an edible biopolymer, or an equivalent synthetic, that will be dissolved under the influence of enzymatic activity contained in the saliva of the animal to be fed, it can be ensured that even after opening of the device, the food will not be released at once, but further "efforts" on the part of the animal to be fed are required, such as, for example, licking, before the food actually becomes accessible as such.

If at least a part of the device is furnished with scents and/or flavorings, the advantage is gained that the device, and hence ultimately the process of feeding itself, is made more interesting for the animal, since the senses of taste and smell can be further targeted by this measure, signifying a further approach to the conditions of taking nourishment in the wild state. Furthermore, such a design is advantageous when the animal is to be medicated, which would otherwise be difficult to do orally.

Finally, other advantages result from the fact that the device comprises means representing marked tactile stimuli

for the animal to be fed. Such means may among other things
comprise spatial structures, fibrous elements and rough
surface elements. This leads to a still more far-reaching
imitation of the stimuli associated with the taking of
5 nourishment, whereby the number of senses involved in the
eating process enhances the experiential value to the animal
and hence its over-all condition.

Other advantages in this respect result from the fact
that the device comprises design features representing visual
10 triggers of modes of behavior related to the taking of
nourishment for the animal to be fed, such design elements
comprising among others, spatial elements, colors, color
patterns, color intensities and hues and/or their
corresponding grays.

15 Because the device comprises a coating dissolved
under the action of enzymatic activity contained in the saliva
of the animal to be fed, a number of other advantages arise,
ultimately related to the fact that various qualities of
stimulus in the process of eating are specially emphasized in
20 comparison with ordinary eating from a feeding dish. If a
coating extends only over the area of the joint between the
parts that make up the device, the animal to be fed has the
opportunity to work on the device with jaws and/or extremities
without immediately releasing the food contained in the device
25 under the influence of this measure. Instead, the coating
according to the present invention can assure that only after
a certain length of time, namely when the coating has been
dissolved under the influence of enzymatic activity contained
in the saliva of the animal to be fed, will the food contained
30 in the device be released. This prevents the animals from
being able to open the device by the mere use of the teeth.

Although experience shows that the ability to open the device according to the invention with the teeth is acquired in a very short time by the animals, compared to convention systems there are still considerable advantages with respect to diminution of readiness to act, even if the device according to the invention does not comprise the said coating.

A more far-reaching possibility results in that the coating itself contains scents and/or flavorings of a kind not only to arouse the animal's interest but also to guide it in certain directions, for example through realization of an appropriate spatial or temporal gradient. In order not to raise the stimulus threshold in question too early, advantageously the release of the flavorings and/or scents may be triggered only under the influence of enzymatic activity contained in the saliva of the animal to be fed, thereby conditioning a more complex course of action in the process of feeding.

Over all, the device according to the present invention is eminently suited to stimulate the various combinations of stimuli in the feeding of the animal as they would occur under natural conditions. And on the basis of the contemporary understanding of animal behavior, this leads to a generally more species-specific keeping of animals, in particular dogs and cats.

Besides, the use of the said device according to the present invention for storing and/or dispensing animal foods has positive repercussions on the use of animal senses, which therefore run no risk of degenerating, as may otherwise be the case when particular sense impressions fail to be received over a long period of time. Furthermore, use of the device

leads to exercising the animal's entire neuromuscular apparatus. Here it is especially important to note that use of the neuromuscular units specifically addressed is not realized under the conditions of animal husbandry as practiced
5 in most cases. Thus, the use according to the invention of the device according to the invention helps keep animals in physical health in the broadest sense of the term.

For further illustration of the invention, an embodiment of the device according to the present invention
10 will be explained in the following.

In the drawing,

Fig. 1 shows a side view of the device according to the present invention;

Fig. 2 shows a top view of the device according to
15 the present invention; and

Fig. 3 shows a top view of the opened device according to the present invention.

Fig. 1 shows a side view of the device according to the present invention, the device consisting in the present
20 case of two parts, a top 1 and a bottom 2. The device is in the shape of a bone, and so permits grasping of the device by the jaws of a dog for example. The top 1 and bottom 2 are detachably connected to each other and form a crevice 3 in a lengthwise direction, having different widths 4 and 4' at
25 different points.

Fig. 2 shows a top view of the device according to the present invention, the top 1 and bottom 2 being of practically the same shape in this case, so that only the top 1 is seen in the top view. A constriction 5 is indicated so
30 that the device can be picked up and perhaps carried by the

animal to be fed, or picked up in play from the floor and other surfaces or for training purposes.

Fig. 3 shows a top view of the opened device according to the present invention, both the top 1 and the bottom 2 being provided with means permitting a releasable plug connection of the two parts. The pegs 6 of the top 1, upon assembly of top 1 and bottom 2, are introduced into the holes 7' of the bottom 2 and the pegs 6' of the bottom 2 into the holes 7 of the top 1. The fit of the plug connection determines essentially under what application of force the top 1 and bottom 2 can be detached from each other to release the animal food 9 accommodated in the recess 8 and 8'. When the top 1 and bottom 2 are assembled according to the invention, the two recesses 8 and 8' of top 1 and bottom 2 form the inner cavity containing the animal food in the device according to the invention.

The features of the invention as disclosed in the foregoing description and in the claims may be essential either singly or in any combination to the realization of the invention in its various embodiments.

The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:

1. Device for dispensing animal food stored within the device, wherein the device comprises at least two parts detachably connected to each other, at least one of said parts having a recessed portion therein so that when the parts are assembled together a cavity is defined to accommodate animal food therein, and wherein the parts to be detachably connected to each other will be loosened under the influence of biting and chewing motions and manipulations of the device with the extremities and aids by the animal to be fed, thus enabling access to the animal food placed in an interior of the device, and wherein the assembly of the parts forms a crevice on the device, which serves as a point of attack for an animal to open the device and render accessible the animal food accommodated in the interior, the crevice extending in a lengthwise direction of the device.

2. Device according to claim 1, wherein the parts are connected to each other by at least one molded-on plug connection.

3. Device according to claim 1 or 2, wherein the device has an elongated shape and comprises a constriction in at least one location on the device, enabling the device, when lying on a surface, to be picked up with jaws of the animal to which the food is to be dispensed.

4. Device according to claim 3, wherein the device is shaped in the form of a bone.

5. Device according to any one of claims 1 to 4, wherein the device comprises a surface depression which serves as a point of attack for the animal for opening the device and rendering accessible the animal food accommodated in the interior of the device.

6. Device according to any one of claims 1 to 4, wherein, when the parts are assembled together, a crevice is formed on the device, which serves as a point of attack for the animal for opening the device and rendering accessible the animal food accommodated in the interior of the device.

7. Device according to claim 5, wherein the surface depression extends in a lengthwise direction of the device.

8. Device according to any one of claims 5 and 6, wherein the crevice has varied widths along its length.

9. Device according to any one of claims 1 to 8, wherein an over-sized cavity is formed in the interior of the device by the assembly of the parts to accommodate the animal food, and the animal food placed therein can move relative to itself and the hollow interior.

10. Device according to claim 9, wherein the cavity is sealed with an edible biopolymer or synthetic material.

11. Device according to claim 9, wherein a portion of the cavity is sealed with an edible biopolymer or synthetic material.

12. Device according to claim 10 or 11, wherein the sealing of the cavity is dissolved under the influence of enzymatic activity contained in the saliva of the animal to be fed.

13. Device according to any one of claims 1 to 12, wherein at least part of the device is made of edible material.

14. Device according to any one of claims 1 to 12, wherein all parts of the device are made of edible material.

15. Device according to any one of claims 1 to 14, wherein at least part of the device is furnished with scents and flavorings.

16. Device according to claim 15, wherein the flavorings and scents are released only under the influence of enzymatic activity contained in the saliva of the animal to be fed.

17. Device according to any one of claims 1 to 16, wherein the device comprises means representing pronounced tactile stimuli for the animal to be fed.

18. Device according to claim 17, wherein the means are selected from the group comprising spatial structures, fiber elements and rough surface elements.

19. Device according to any one of claims 1 to 18, further comprising design features representing pronounced

triggers of modes of behavior related to the taking of nourishment for the animal to be fed, said design features being selected from the group comprising spatial elements, color patterns, color intensities, colors and their corresponding grays.

20. Device according to any one of claims 1 to 19, wherein, after assembly of the at least two parts of which it is composed, a coating is provided which dissolves under the action of enzymatic activity contained in the saliva of the animal to be fed, the dissolving being influenced by the biting and chewing movements and manipulations of the device with the extremities and aids by the animal to be fed.

21. Device according to claim 20, wherein the coating extends to an area of a joint between the at least two parts of which the device is composed, and releases the animal food contained in the interior of the cavity of the device only after dissolving of the said coating.

22. Device according to claim 21, wherein the coating extends to the area of the joint between the parts of which the device is composed, and releases the animal food contained in the cavity of the device only when said coating has dissolved under the influence of the biting and chewing movements and manipulations of the device with the extremities and aids of the animal to be fed.

23. Device according to any one of claims 1 to 19, wherein, after assembly of the at least two parts of which it is composed, a coating is provided which dissolves under the

action of enzymatic activity contained in the saliva of the animal to be fed.

24. Device according to any one of claims 20 to 23, wherein scents and flavorings are contained in the coating.

25. Device according to claim 24, wherein the flavorings and the scents are released only under the influence of enzymatic activity contained in the saliva of the animal to be fed.

26. Use of the device for dispensing animal food stored within the device as defined in any one of claims 1 to 25, for the purpose of storing and dispensing animal food.

27. A device for dispensing animal food stored within the device comprising at least two parts releasably connected together, at least one of said parts having a recessed portion therein so that when the parts are assembled together an internal cavity is defined to accommodate animal food therein, said at least two parts being assembled together to maintain a lengthwise open crevice therebetween which serves as a point of attack for an animal to separate the at least two parts to gain access to the food therein by biting or chewing or manipulating the device with the extremities of the animal to be fed.

Fig. 1

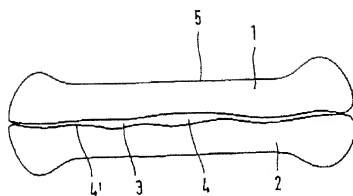


Fig. 2

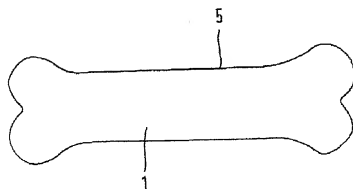


Fig. 3

